

REMARKS

Claims 1-38 are pending in this application.

Claims 6-7, 12-13, 16, 19, 22, 25-26 and 32 are objected to.

Claims 1-5, 8-11, 14-15, 17-18, 20-21, 23-24, 27-31 and 33-38 are rejected.

The office action dated Jan. 29, 2008 indicates that claims 6, 16, 22 and 25 contain allowable subject matter. Claims 6, 16, and 22 have been rewritten in independent form and should now be allowed. Claim 7, which depends from amended claim 6, should also be allowed.

Claim 23 has been amended to include the subject matter of claims 24 and 25. Therefore, claim 23 and its dependent claims 26-32 should be allowed.

The office action dated Jan. 29, 2008 indicates that claims 1-5, 8, 10-11, 14-15, 17-18, 23-24, 27-30 and 33-38 are rejected under 35 USC §102(b) as being anticipated by a paper entitled “Reconstruction of Color Images from CCD Arrays” by Muresan. The office action also indicates that claims 20-21 and 31 are rejected under 35 USC §103 as being unpatentable over Muresan in view of Hel-Or U.S. Patent No. 6,404,918. The rejections have been rendered moot in view of the amendments above.

Claim 1 has been amended to include the subject matter of claim 5. Claim 1 has been further amended to recite that the first color is green. Thus, amended claim 1 recites a method that includes determining likelihoods of a given pixel belonging to the same region as each of at least two other pixels having sampled green values, the other pixels in different directions relative to the given pixel; using the likelihoods and the sampled values of the other pixels to interpolate the

green value at the given pixel; and using sampled values of a second color to compute terms for correcting the interpolated green values.

Muresan discloses a demosaicing method in which pixels are interpolated according to the likelihood that they lie along the same edge. According to equation (1) on page 2, green samples are weighted according to the likelihood of belonging to the same object. However, only green samples are used. Muresan does not teach or suggest using non-green sampled values to compute terms for correcting the interpolated green values. Therefore, amended claim 1 and its dependent claims 2-4, 8-10, 12-14, and 17-21 should be allowed over Muresan.

Base claim 33, 35 and 37 have been amended to recite correction terms for green interpolated values, where the correction terms are computed from sampled values of a non-green color. Muresan teaches only the use of green samples to interpolate green values. Therefore, claims 33-35 and 37 should be allowed over Muresan.

Claims 5, 11, 15, 24-25, 36 and 38 have been cancelled.

The examiner is respectfully requested to withdraw the rejections of the claims. The examiner is encouraged to contact the undersigned to discuss any issues that might remain.

Respectfully submitted,
/Hugh Gortler #33,890/
Hugh P. Gortler
Reg. No. 33,890

Hewlett-Packard Company
Intellectual Property Administration
P.O. Box 272400
Fort Collins, Colorado 80527-2400
(949) 454-0898

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